#### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

## (19) World Intellectual Property Organization International Bureau





### (43) International Publication Date 24 December 2003 (24.12.2003)

### **PCT**

# (10) International Publication Number WO 03/106632 A2

(51) International Patent Classification7:

Farms, Madison, NJ 07940 (US).

C12N

(21) International Application Number: PCT/US03/18651

(22) International Filing Date: 13 June 2003 (13.06.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/387,915 Not furnished 13 June 2002 (13.06.2002) US 14 May 2003 (14.05.2003) US

(71) Applicant (for all designated States except US): WYETH HOLDINGS CORPORATION [US/US]; Five Giralda

(72) Inventors; and

(75) Inventors/Applicants (for US only): EVANS, Mark, J. [US/US]; 617 Twin Bridge Drive, Radnor, PA 19087 (US). HARNISH, Douglas, C. [US/US]; 2715 Kutztown Road, Pennsburg, PA 18073 (US).

(74) Agents: SCHULMAN, Robert, M. et al.; Hunton & Williams, LLP, 1900 K Street, N.W., Suite 1200, Washington, D.C. 20006-1109 (US). (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

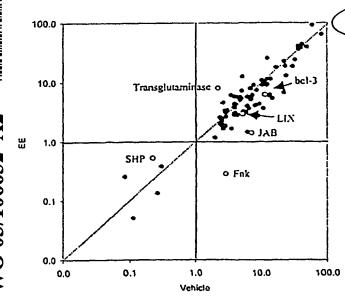
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INHIBITORS OF INFLAMMATORY GENE ACTIVITY AND CHOLESTEROL BIOSYNTHESIS



(57) Abstract: Methods of identifying agents effective as inhibitors of short heterodimer protein (SHP) and farnesoid X receptor (FXR) and promoters, cell lines and vectors used in said methods. Methods of preparing and using the agents effective as inhibitors of short heterodimer protein (SHP), including methods of using same to prevent and/or treat a condition associated with inflammatory gene activity and/or cholesterol biosynthesis in a subject. Agents effective as inhibitors of short heterodimer protein (SHP) and farnesoid X receptor (FXR) and compositions comprising same, including compositions effective in reducing inflammatory gene activity and/or cholesterol biosynthesis in a subject.

WO 03/106632 A2